

The BOG



Willow Lake, Plumas County <http://creagrass.home.montereybay.com/CA-PLU-WillowLake.html>

Today's Agenda

- Updates
- OEHHA advisory plans
- Bight sampling in 2018
- Bass lake sampling in 2017
- Annual water quality status report
- Timeline for 2017



Item 2: Updates

- 2014 Clean Lakes report
- 2015 Bass Lakes data
- 2016 Lakes sampling – Gary
- Contracts and budgets – Jennifer
- SWAMP Newsletter
- SWAMP Symposium
- Mercury Control Program for Reservoirs - Carrie
- Statewide Mercury Water Quality Objectives – Amanda
- Delta RMP mercury monitoring underway!
- Bay RMP 2014 sport fish report imminent



Item 3: OEHHA Advisory Update

- Information item



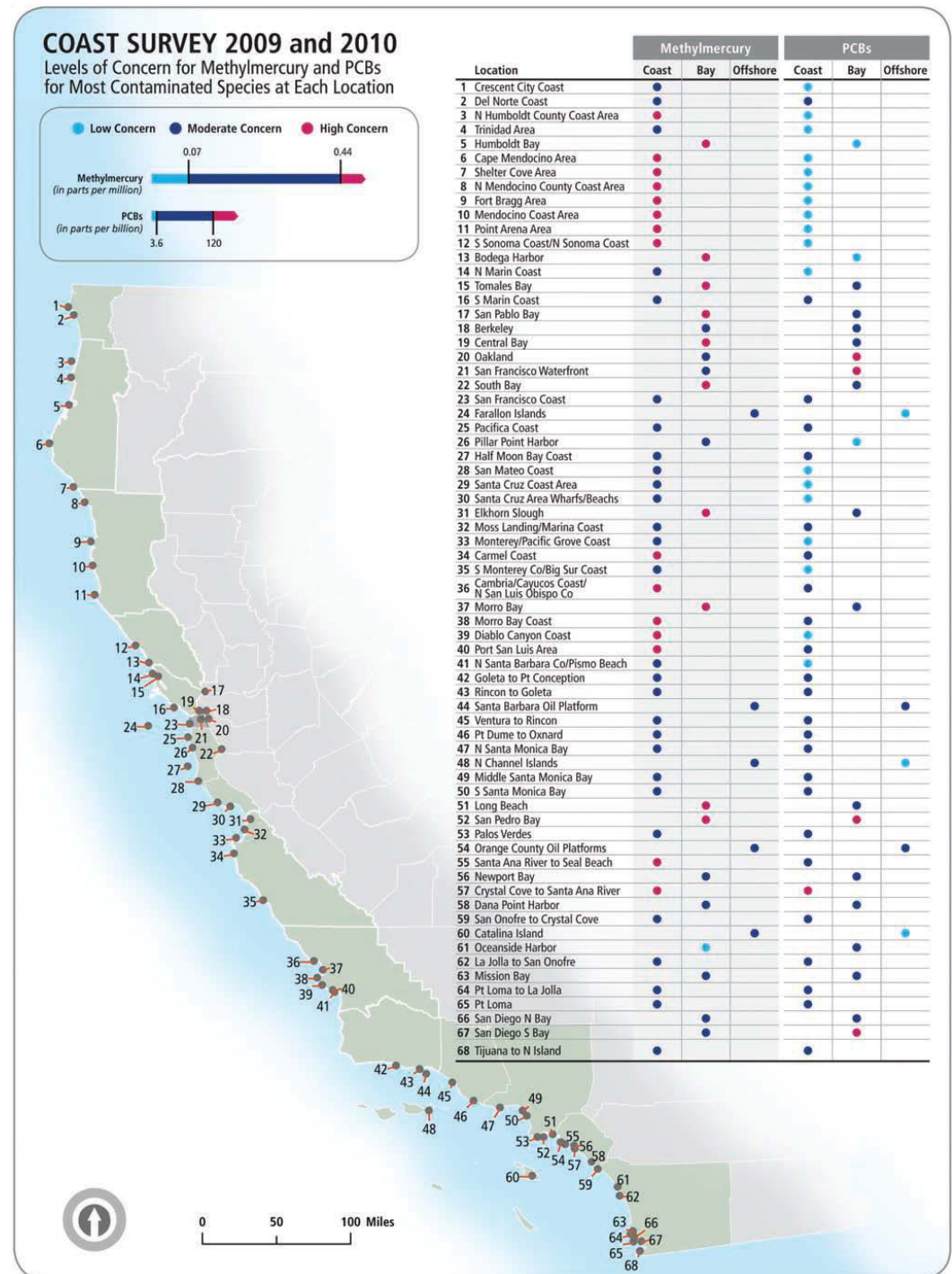
Item 4: Coast Sampling in 2018 – The Southern California Bight

- Summary of budget and preliminary design
- Desired outcome: Agree on preliminary plan for the work to allow planning for coordination with the Bight Program.



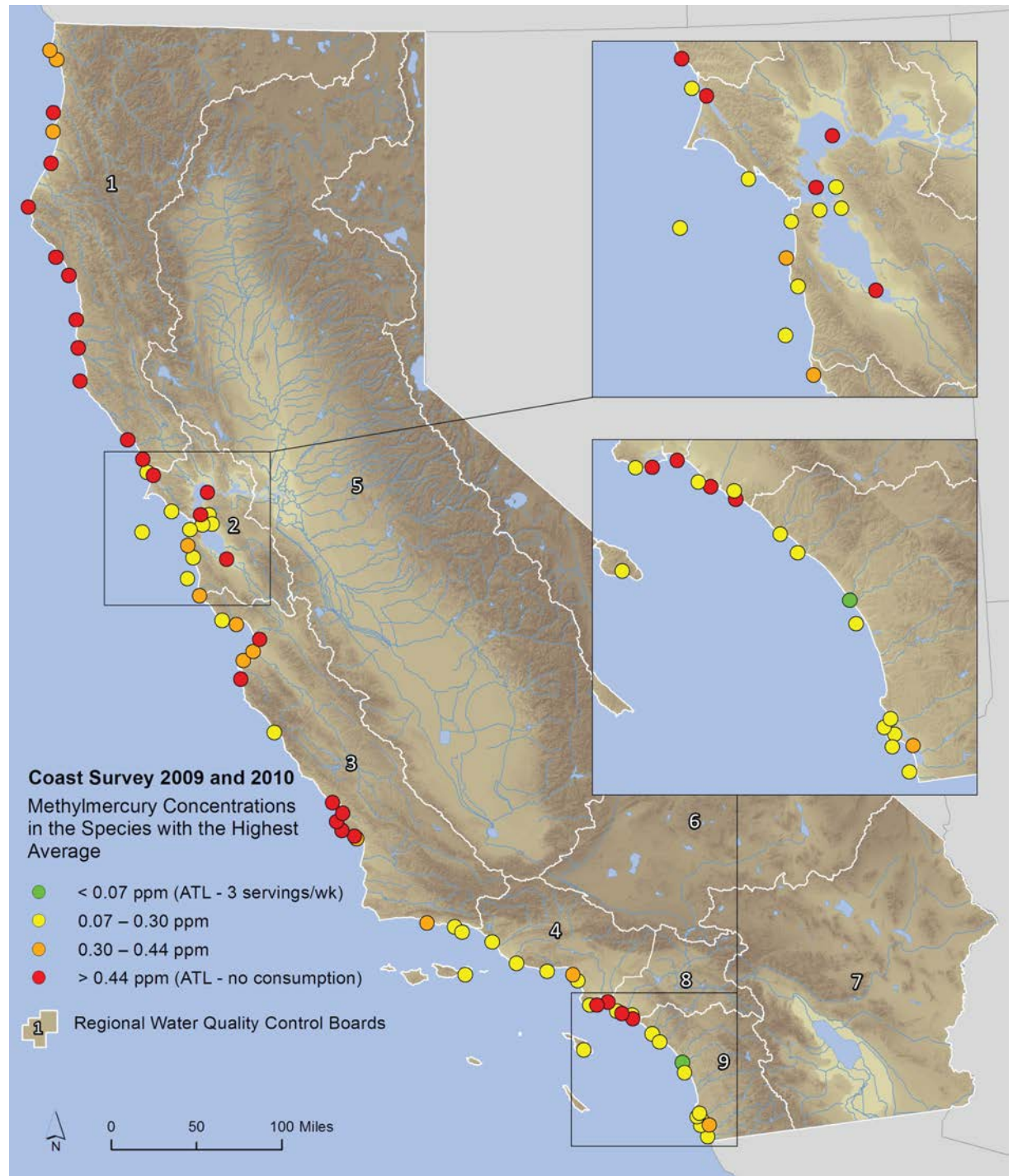
Coast Sampling – Round 2

- Recap of Round 1
 - 2 year survey
 - 68 zones (6 in SF Bay)
 - 5 species per zone
 - Hg, PCBs, OCs, Se in all species



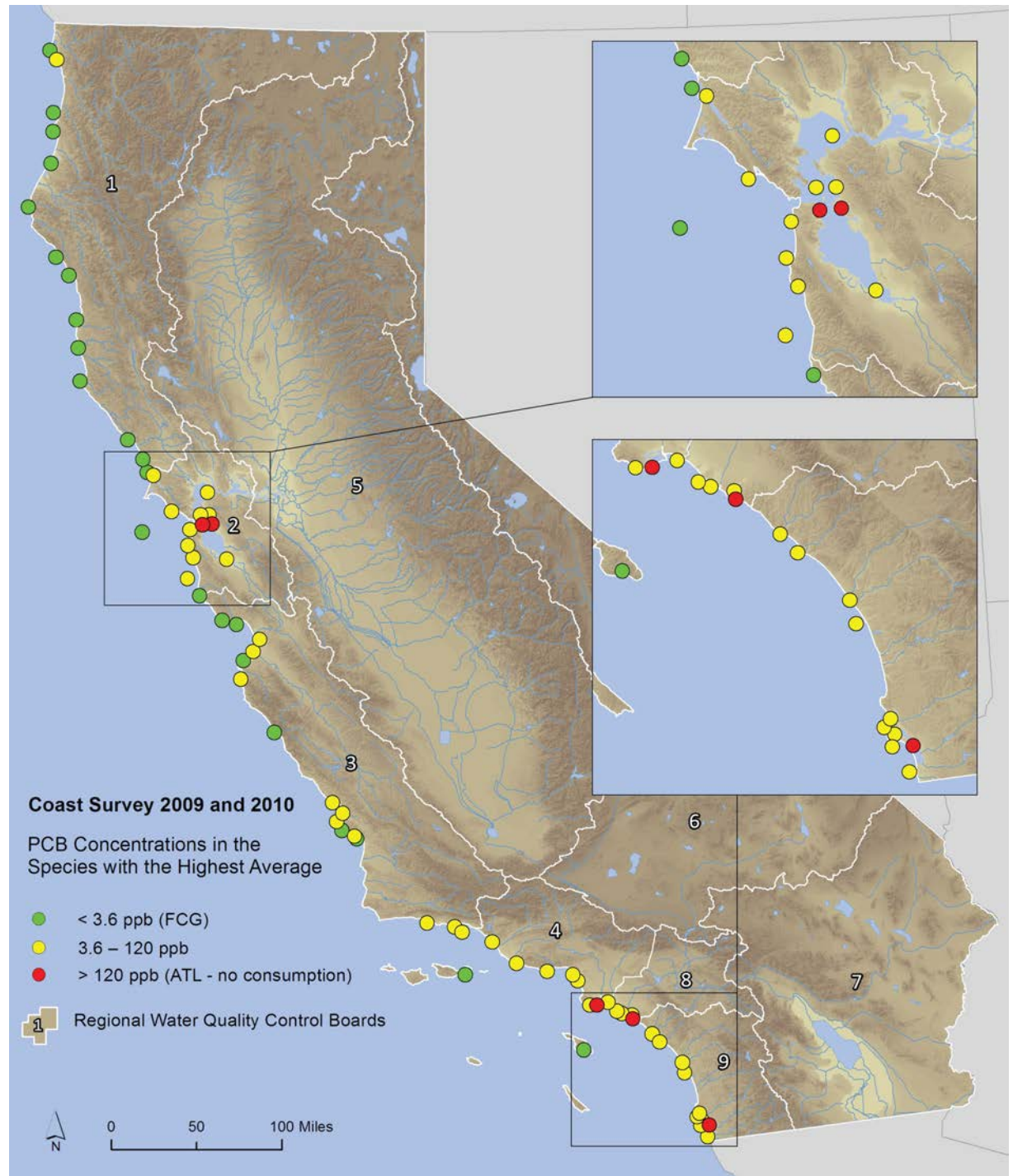
Coast Sampling – Round 2

- Recap of Round 1
 - Widespread high mercury



Coast Sampling – Round 2

- Recap of Round 1
 - Widespread high mercury
 - A few spots with high PCBs



Coast Sampling – Round 2

- Assumptions for Round 2
 - 3 years
 - 62 zones (SF Bay is on its own)
 - 5 species per zone

■ Bight Zones

- SWAMP: Hg in 5 species, (organics in one comp from each of two species)
- Bight Program: Organics in 5 species (including 3 replicates for 2 species)

■ Other Zones

- SWAMP: Hg in 5 species, organics in one comp from each of two species

Bioaccumulation Monitoring Program Budget

	Actual				Planning							
Fiscal Year	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/2022	2022/2023	2023/2024	2024/2025
Sampling Year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	Clean Lakes	Bass Lakes 1.1	Lake Info Gaps	Bass Lakes 1.2	Coast 2.1	Bass Lakes 1.3	Coast 2.2	Bass Lakes 1.4	Coast 2.3	Bass Lakes 1.5	Coast 2.4/High Trout Lakes	Bass Lakes 2.1
Project management and coordination, peer review: SWAMP and CWQMC (SFEI)	\$100,000	\$100,000	\$100,000	\$100,000	\$75,000	\$75,000	\$75,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Project management and coordination, monitoring design, data validation, infrastructure: SWAMP (MPSL)	\$76,000	\$75,000	\$75,000	\$75,000	\$75,000	\$70,000	\$65,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Clean Lakes Study	\$263,457											
Status and Trend Monitoring (Lakes, Coast, Rivers)		\$280,000	\$360,000	\$360,000	\$339,789	\$424,789	\$295,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
Coastal Fish (Round 2)												
Statewide Synthesis Report (SWAMP + Other)												
Upload, Maintenance, Minor Enhancements	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
UI/UX Survey and Add Functionality												
Upgrade Code: Open Source Base Map			\$30,000									
Cyanotoxin White Paper	\$50,000											
Cyanotoxin Tissue Monitoring Cyanobacteria		\$150,000	\$100,000	\$100,000								
?? - opportunistic partnering? Anticipate this being covered by others												
SQO	\$7,500											
TOTAL	\$511,957	\$620,000	\$680,000	\$650,000								
BOG Total					\$504,789	\$584,789	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000
				R4 Augment	\$27,922		\$25,796					
				R8 Augment	\$2,001		\$5,000					
				Total Available for Sampling	\$369,712	\$424,789	\$325,796					
				funds used for previous project		(\$168,245)	(\$158,084)					
				Total Available for Sampling (Autumn)	\$369,712	\$256,544	\$167,712					
				Latest Estimated Cost of Sampling	\$537,957	\$414,628	\$265,185					
				Difference (borrowed from following FY)	(\$168,245)	(\$158,084)	(\$97,473)					
					pay from FY1819	pay from FY1920	remaining tasks must be paid from FY20/21 funds because the contract end date of 6/30/20					
							-all tasks cannot be completed prior to end date					

Decisions

- Coordinate with Bight '18 sampling?
- Approval of the budget approach?
- Have Bight do all or just some of the organics? – potential savings of \$68K



Item 5: Bass Lake Sampling in 2017

- Refresher on the design
- Desired outcome: Inform the regions on input that will be needed



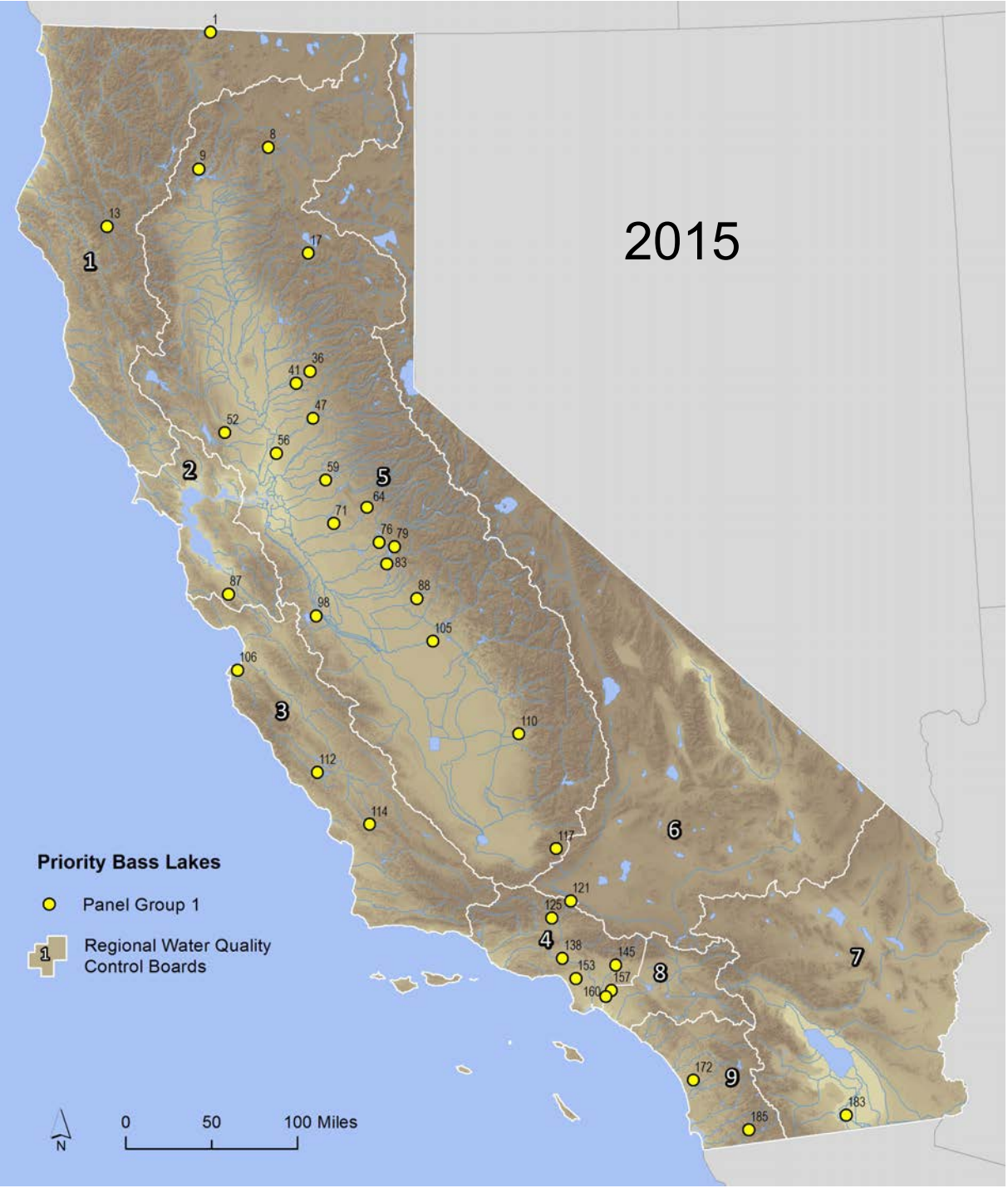
FINAL

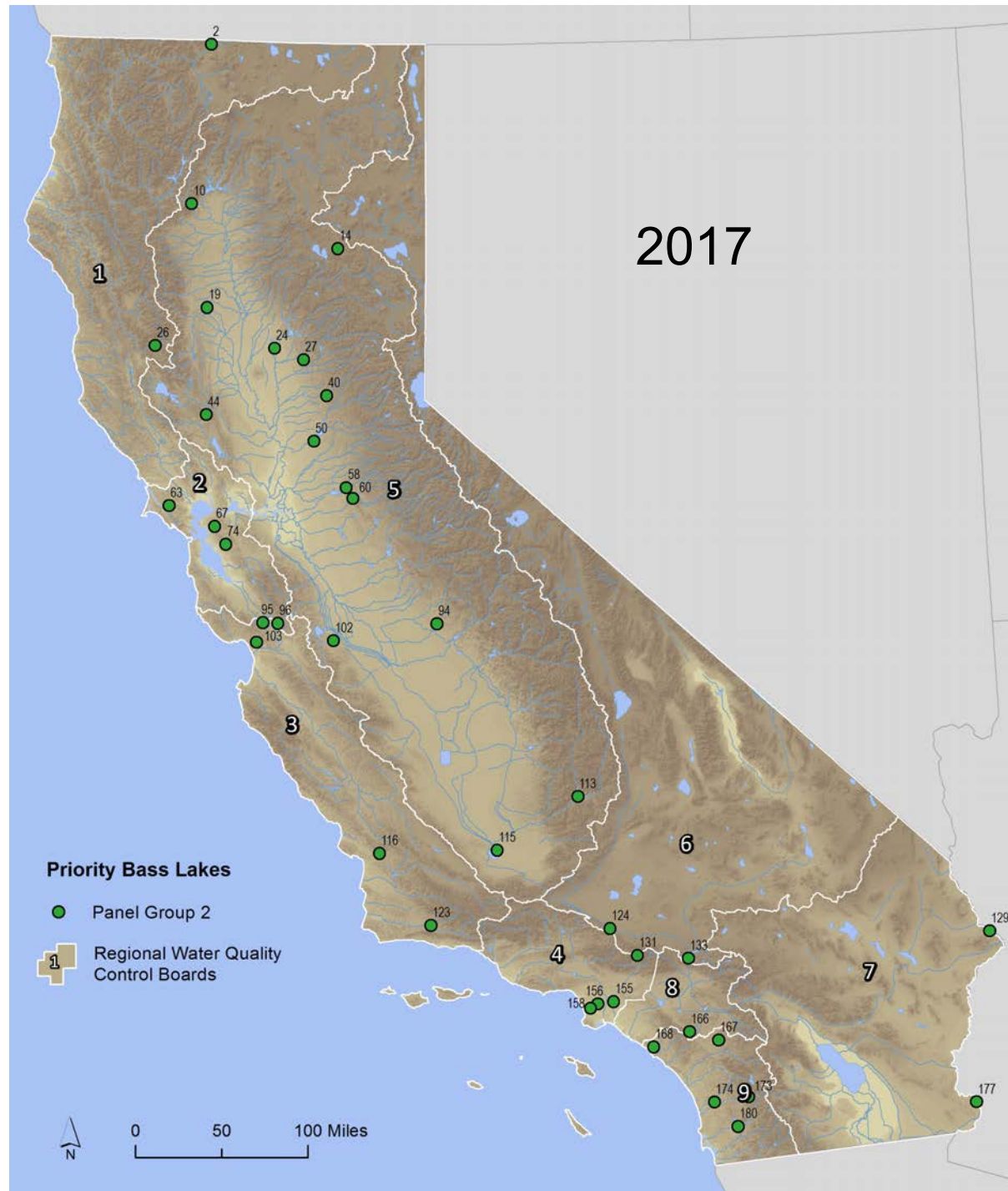
Sampling and Analysis Plan for
Long-term Monitoring of Bass Lakes
and Reservoirs in California

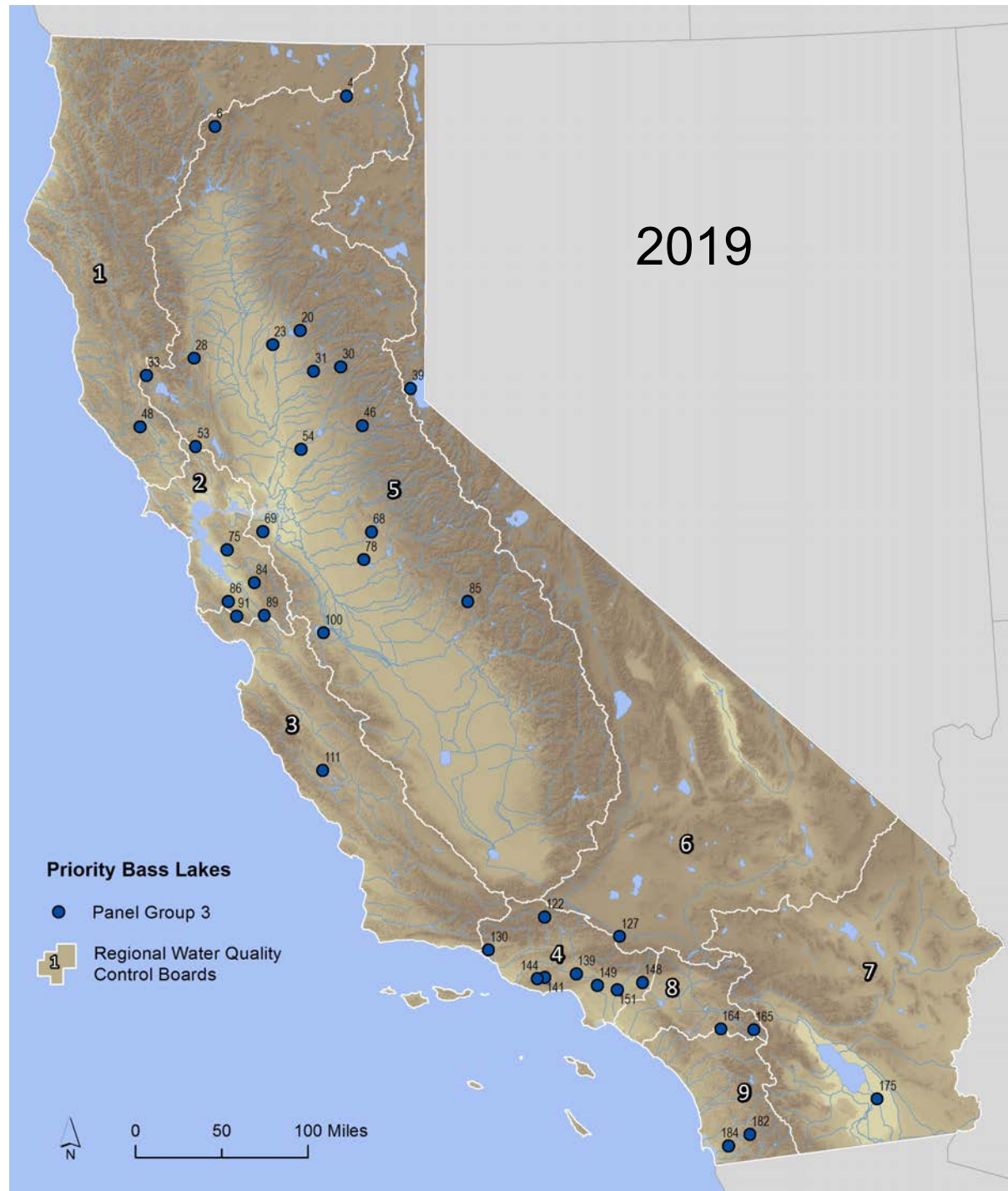
The Bioaccumulation Oversight Group (BOG)

Surface Water Ambient Monitoring Program

June 2015

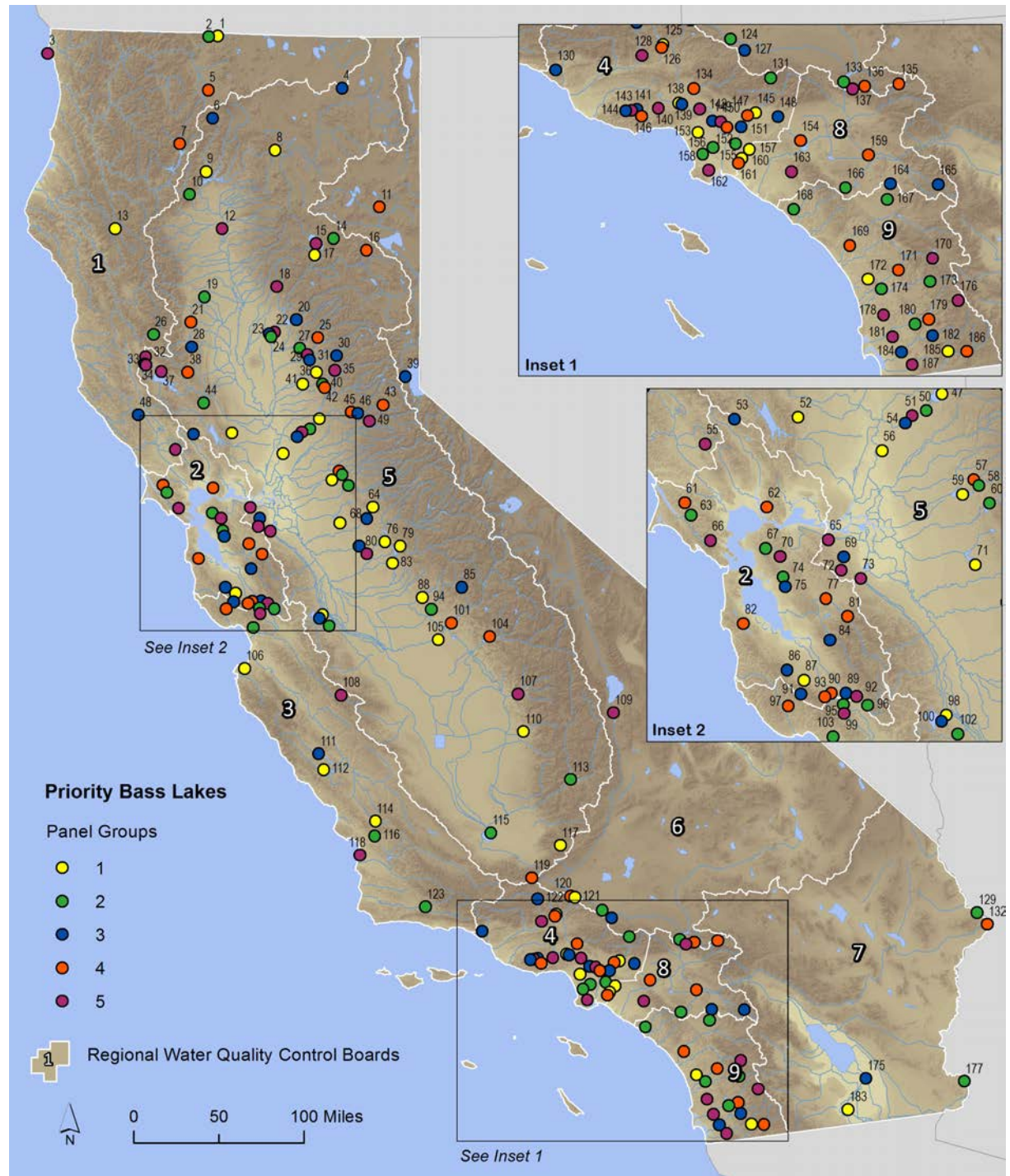












Design Summary

- Sport fish
 - Focus on bass and mercury
 - PCBs and OCs in bottom-feeder in selected lakes (20% for PCBs)
 - *New*: Selenium in composites of all species
- Prey fish
 - Mercury and selenium in composites



Bass Lake Monitoring – Panel 2

	Original c	Panel	Region	Map Label Number	Lake Name	Missed in Schedule d Yea	Year Actually Sample	Include PCBs	Include OC Pesticide	County
	55	2	1	2	Iron Gate Reservoir					Siskiyou
	65	2	1	26	Pillsbury, Lake					Lake
	43	2	2	74	Upper San Leandro Reservoir					Alameda, Contra Costa
	59	2	2	67	San Pablo Reservoir					Contra Costa
	66	2	2	63	Nicasio Lake					Marin
	67	2	2	96	Coyote Lake					Santa Clara
	41	2	3	123	Cachuma, Lake					Santa Barbara
	47	2	3	103	Pinto Lake				X	Santa Cruz
	63	2	3	95	Chesbro Reservoir					Santa Clara
	71	2	3	116	Lopez Lake					San Luis Obispo
	44	2	4	155	Wilderness Park Lake					Los Angeles
	60	2	4	156	Magic Johnson Lakes					
	72	2	4	158	Alondra Park Lake					Los Angeles
Count	38	2	5	60	New Hogan Lake					Calaveras
36	39	2	5	10	Whiskeytown Lake					Shasta
	42	2	5	50	Natomas, Lake					Sacramento
	45	2	5	113	Isabella Lake					Kern
	46	2	5	24	Mile Long Pond					Butte
	49	2	5	19	Black Butte Lake					Tehama, Glenn
	50	2	5	44	Davis Creek Reservoir					Yolo
	51	2	5	102	Los Banos Reservoir					Merced
	54	2	5	58	Pardee Reservoir					Amador, Calaveras
	57	2	5	115	Webb, Lake					Kern
	58	2	5	14	Mountain Meadows Reservoir					Lassen
	62	2	5	27	Collins Lake					Yuba
	70	2	5	40	Lake of the Pines					Nevada
	73	2	5	94	Hensley Lake					Madera
	53	2	6	124	Palmdale Lake					Los Angeles
	69	2	6	133	Silverwood Lake			X		San Bernardino
	52	2	7	177	Ferguson Lake					Imperial
	56	2	8	166	Elsinore, Lake					Riverside
	40	2	9	167	Skinner					
	48	2	9	174	Hodges, Lake					San Diego
	61	2	9	180	Jennings, Lake					San Diego
	64	2	9	168	Laguna Niguel Park Lake					Orange
	68	2	9	173	Sutherland, Lake					San Diego

Questions

1. Add other lakes? (Terri Reeder)



Next Steps

1. Send list out to Regions to finalize details



Item 6: Annual Water Quality Status Report - Bioaccumulation

- Lori will provide background, Jay will present an idea for the content of the writeup
- Desired outcome: Agree on plan for preparing the bioaccumulation section of the report

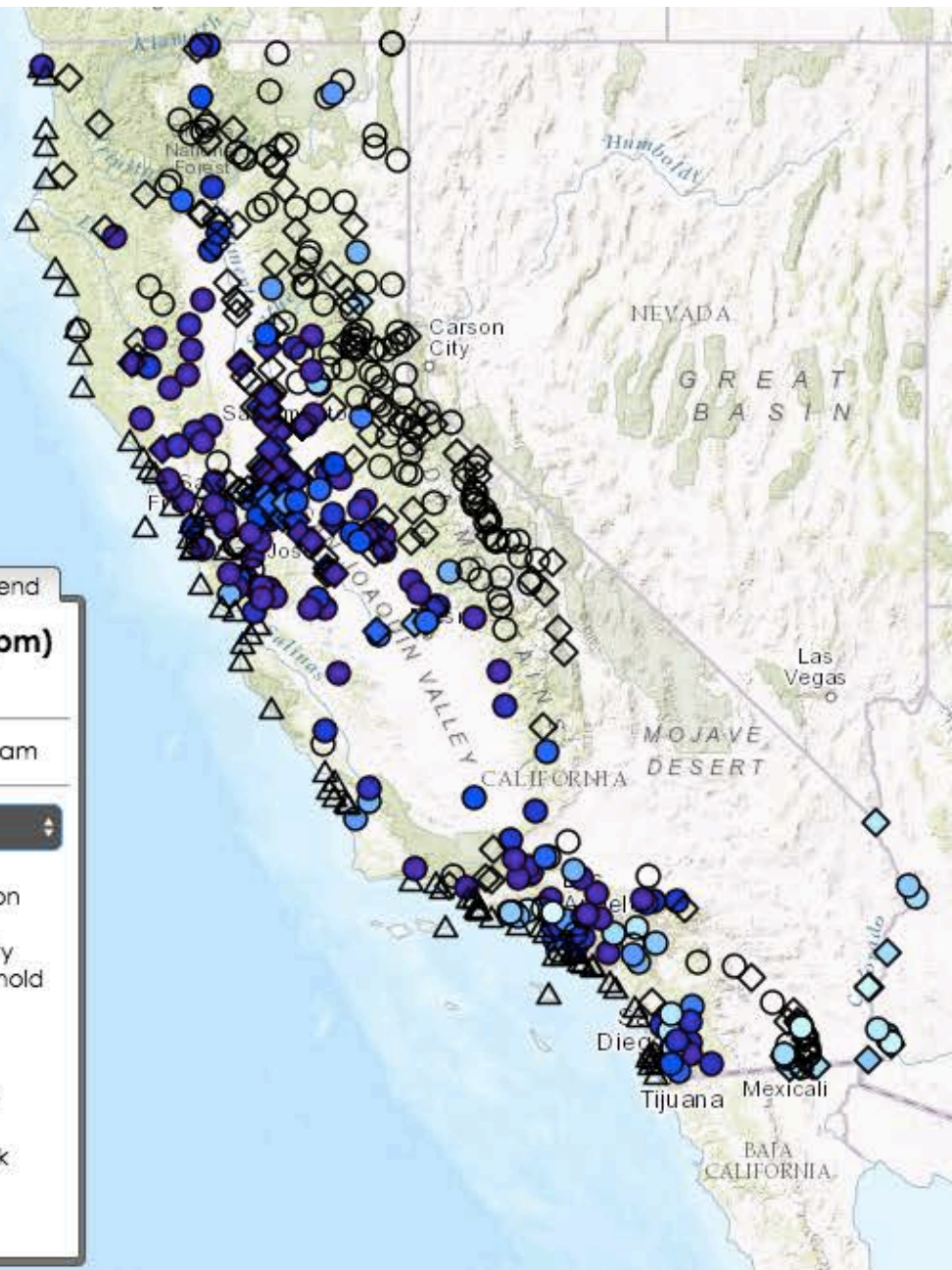


**Mercury Concentrations in Largemouth Bass (ppm)
2004-2014**

○ Lake/Reservoir △ Coast/Ocean ◇ River/Stream

Non-Specific Thresholds

Dark Purple	+0.44 ppm	OEHHA Advisory Tissue Level - No Consumption
Blue	0.3 ppm	USEPA National Recommended Water Quality Criterion and State Water Board 303(d) Threshold
Medium Blue	0.22 ppm	OEHHA Fish Contaminant Goal
Light Blue	0.15 ppm	OEHHA Advisory Tissue Level - 1 serving/week
Very Light Blue	0.07 ppm	OEHHA Advisory Tissue Level - 2 servings/week
White	0 ppm	Not Detected



Item 7: Information - Timeline for 2017

- Clean Lakes report - Jan
- Finalize 2017 sampling plan and QAPP - Mar
- Clean Lakes fact sheet - Mar
- Review and release upgraded Portal - Mar
- Review Panel meeting - Mar/Apr
- Begin 2017 sampling - May
- 2015 Bass Lakes data report and fact sheet - May
- Water Quality Status Report - Jun
- SWAMP Symposium - Jun

